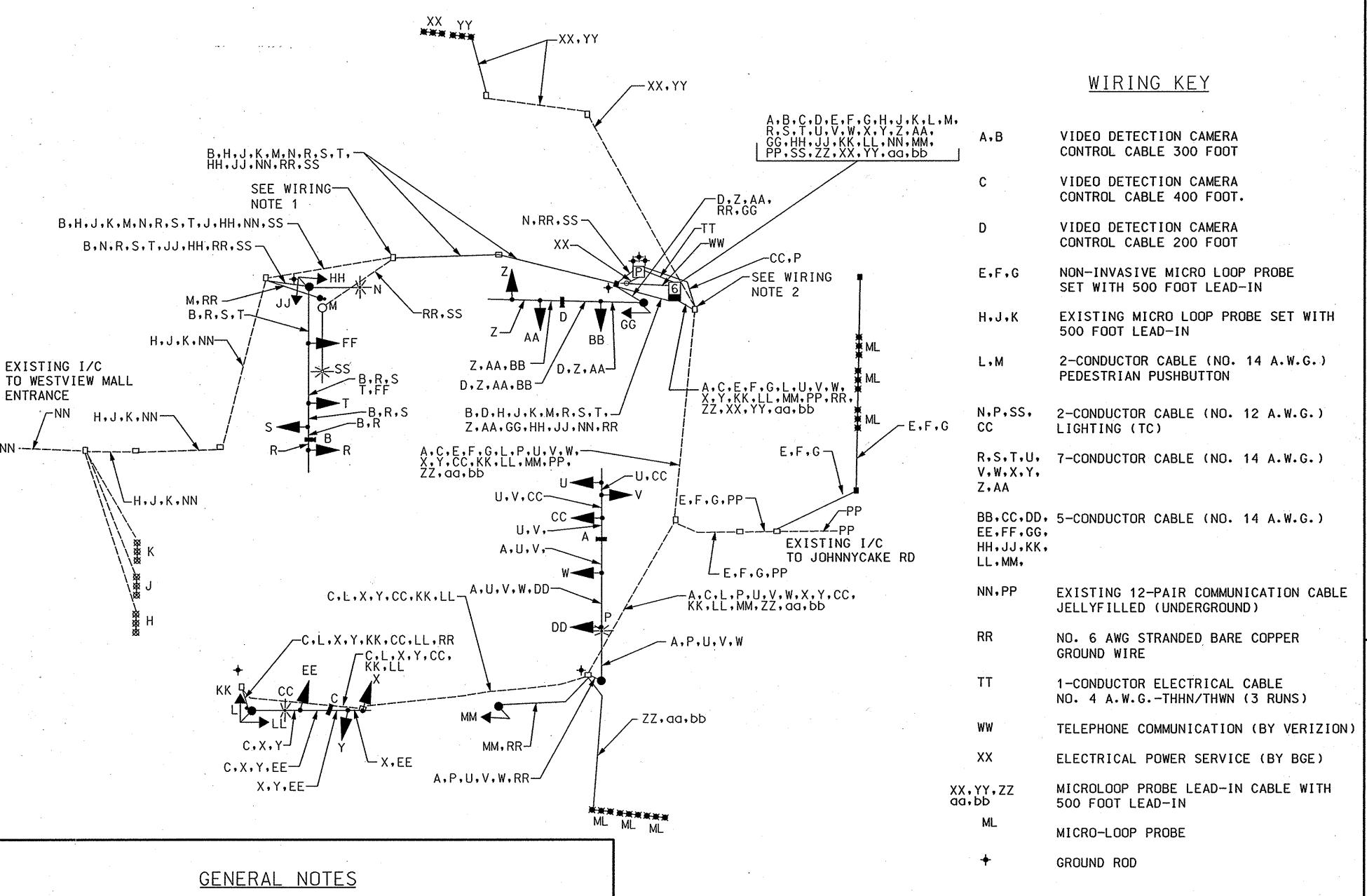
CONSTRUCTION DETAILS

- A. INSTALL 27 FT. MAST ARM POLE WITH A 60 FT. MAST ARM, 15 FT: STREET LIGHTING ARM WITH 250 WATT HPS LUMINAIRE WITH PHOTOCELL, VIDEO DETECTION CAMERA, SIGNAL HEADS, SIGNS, AND COUNTDOWN PEDESTRIAN SIGNALS, (NOTE: INSTALL 1-4 IN. PVC CONDUIT
- B. INSTALL 27 FT. MAST ARM POLE WITH 70 FT. MAST ARM, 15 FT. STREET LIGHTING ARM WITH 250 WATT HPS LUMINAIRE WITH PHOTOCELL, VIDEO DETECTION CAMERA, SIGNAL HEADS, AND SIGNS (NOTE: INSTALL 1-3 IN, PVC CONDUIT BEND).
- C. INSTALL 27 FT. MAST ARM POLE WITH 38 FT. MAST ARM, STREET LIGHTING ARM WITH 250 WATT HPS LUMINAIRE WITH PHOTOCELL, VIDEO DETECTION CAMERA SIGNAL HEADS, SIGNS, COUNTDOWN PEDESTRIAN SIGNALS, PUSHBUTTON, AND SIGN TO READ "PUSH BUTTON TO CROSS BALT, NAT'L PK" (NOTE: INSTALL 1-3 IN, PVC CONDUIT BEND)
- D. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL (NOTE: INSTALL 1-3 IN. PVC CONDUIT BEND)
- E. INSTALL 5 FT. BREAKAWAY PEDESTAL POLE WITH PUSHBUTTON AND SIGN TO READ "PUSH BUTTON TO CROSS BALT. NAT'L PK" (INSTALL 1-2 IN: PVC CONDUIT
- F. INSTALL METERED SERVICE PEDESTAL (NOTE: INSTALL 1-4 IN., 3-2 IN. PVC CONDUIT BENDS)
- G. INSTALL SIZE "6" BASE MOUNTED CABINET AND CONTROLLER (NOTE: INSTALL 2-4 IN. AND 2-2 IN. PVC CONDUIT BENDS)
- H. INSTALL ELECTRICAL HANDHOLE
- J. INSTALL NON-INVASIVE PROBE SET WITH 3 IN. CARRIER PIPE AND 500 FT. LEAD-IN
- K. REMOVE EXISTING SIDEWALK (CLASS 2 EXCAVATION), INSTALL SIGNAL EQUIPMENT, AND INSTALL NEW 4 IN. SIDEWALK
- L. INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT TRENCHED (PHONE DROP)
- M. INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT TRENCHED (POWER SOURCE)
- N. INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT TRENCHED
- P. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT TRENCHED
- R. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT TRENCHED
- S. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT SLOTTED
- T. INSTALL R4-7 SIGN ON ONE 4 IN. X 4 IN. WOOD SUPPORT AT 15 DEGREES (INSTALL PVC SLEEVE IN MEDIAN AREAS)
- U. INSTALL 27 FT. MAST ARM POLE WITH 50 FT. MAST ARM, VIDEO DETECTION CAMERA, SIGNAL HEADS, AND SIGNS (NOTE: INSTALL 1-3 IN. PVC CONDUIT BEND)
- V. INSTALL S1-1 AND W16-7P (FYG) ON ONE 4 IN. X 4 IN. WOOD SUPPORT
- W. INSTALL 4 IN. CONCRETE SIDEWALK WITH SIDEWALK RAMP (SHA STANDARD NO. MD 655.11) WITH DETECTABLE WARNING SURFACE (SHA STANDARD NO. MD 655.40) AND DEPRESSED CURB AND GUTTER (SHA STANDARD NO. MD 620.03)
- X. REMOVE EXISTING PAVEMENT MARKING
- Y. INSTALL 12 IN. HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (REMOVE EXISTING PAVEMENT MARKING AS NEEDED)
- Z. REMOVE 7 FT. OF THE EXISTING 4 FT. MONOLITHIC MEDIAN (CLASS 2 EXCAVATION). REPLACE VOID IN ROADWAY WITH CONCRETE (CLASS 2 EXCAVATION) INSTALL NEW MONOLITHIC MEDIAN
- AA. REMOVE EXISTING STREET LIGHTING STRUCTURE AND FOUNDATION (12" BELOW GRADE)
- BB. REMOVE EXISTING W-BEAM TRAFFIC BARRIER
- CC. REMOVE EXISTING SIGNAL EQUIPMENT, POLE & FOUNDATION (12" BELOW GRADE)
- DD. REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER (12" BELOW GRADE)
- EE.REMOVE EXISTING SIGN AND SUPPORT
- FF. USE EXISTING HANDHOLE
- GG. USE EXISTING CONDUIT
- HH. REMOVE EXISTING W-BEAM TRAFFIC BARRIER END TREATMENT
- JJ.INSTALL TYPE "A" COMBINATION CURB AND GUTTER (SHA STANDARD NO. MD 620.02)
- KK. INSTALL MICROLOOP PROBE SET WITH 500' LEAD-IN
- LL. INSTALL 1" LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT (DETECTOR SLEEVE)
- MM. INSTALL ONE TYPE I CONNECTOR KIT AND ONE TYPE II CONNECTOR KIT FOR LUMINAIRE CONNECTION.

WIRING DIAGRAM



- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- 3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THIS PLAN ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE
- 4. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL MICRO LOOP PROBE LEAD-IN CABLES AND VIDEO DETECTION CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE SO THAT SHA FORCES CAN MAKE THE FINAL CONNECTIONS.
- 6. SEE WIRING DIAGRAM FOR INTERCONNECT DETAILS.
- 7. RED LIGHT CAMERAS ARE NOT PART OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING RED LIGHT CAMERA ARE TO BE DONE BY OTHERS.

WIRING NOTES

- 1. DISCONNECT FROM EXISTING CONTROLLER AND PULL BACK WIRE "H,J,K,NN" TO THIS HANDHOLE AND RE-ROUTE TO PROPOSED CONTROLLER.
- 2. DISCONNECT FROM EXISTING CONTROLLER AND PULL BACK WIRE "PP" TO THIS HANDHOLE AND RE-ROUTE TO PROPOSED CONTROLLER.

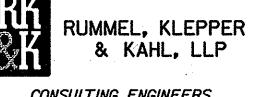


STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION U.S.40 (BALTIMORE NATIONAL PIKE AND INGLESIDE AVENUE

GENERAL INFORMATION SHEET

WOODLAWN, MD



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NONE DATE 82005 CONTRACT NO. AT7175185 SCALE __ DESIGNED BY ____ MLH COUNTY BALTIMORE 03004002.85 LOGMILE DRAWN BY MLH CHECKED BY TIMS NO. FAP NO. TOD NO. SHEET NO. 2 OF 3 TS NO. 587C DRAWING